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Quarterly Groundwater Monitoring Report Third Quarter 2004

7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, California

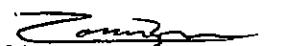
SECOR Project No.: 77EL.20244.04

Submitted by:
SECOR International Incorporated
3017 Kilgore Road, Suite 100
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Prepared on behalf of:
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Mr. Ken Hilliard
P.O. Box 711
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November 1, 2004

Prepared by:



Damon Brown

Staff Geologist

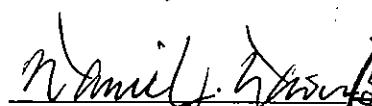
Reviewed by:



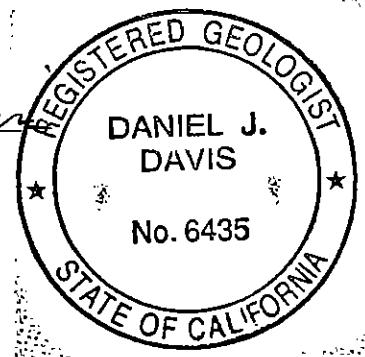
Jaff Auchterlonie

Senior Geologist

Reviewed by:



Daniel J. Davis, R.G.
Senior Geologist



DATE: November 1, 2004**S E C O R****7-ELEVEN, INC. QUARTERLY REPORT**

Store Number:	7-Eleven Store #20244
Site Address:	3625 MacDonald Avenue, Richmond, CA
7-Eleven Contact:	Mr. Ken Hilliard
Consulting Company:	SECOR International, Inc. – Mr. Jaff Auchterlonie
SECOR Project No.:	77EL.20244.04
Primary Agency:	Regional Water Quality Control Board - San Francisco Bay Region (RWQCB – SFBR)

WORK PERFORMED THIS QUARTER [Third – 2004]

1. Conducted groundwater monitoring and sampling of five wells on September 27, 2004.
2. Prepared quarterly groundwater sampling and monitoring report.
3. Submitted Work Plan for Remediation Well Install and Oxygen Injection Feasibility Test to RWQCB.

WORK PROPOSED FOR NEXT QUARTER [Fourth – 2004]

1. Perform quarterly groundwater sampling and prepare report.
2. Upon approval of work plan, install three oxygen injection wells (I-1 through I-3) and conduct oxygen feasibility test.
3. Submit well installation and oxygen feasibility test results to RWQCB.

DISCUSSION

The site is a 7-Eleven convenience store and former gasoline service station (Figures 1 and 2). Underground storage tanks (USTs) no longer exist at the site. Monitoring and sampling have been conducted at the site since the first quarter of 1999. The current groundwater monitoring and sampling data are summarized in Table 1, and presented in Figures 2 and 3. Historical groundwater monitoring and sampling results are summarized in Table 2. Well completion details are summarized in Table 3.

Current Site Information

Current Phase of Project:	Groundwater Monitoring
Frequency of Monitoring and Sampling:	Quarterly, Five wells - MW-1 through MW-5
Are Liquid Phase Hydrocarbons Present On-site:	No
Water Supply Wells within a 2,000-foot radius and their Respective Direction:	None
Current Remediation Techniques:	Pending
Permits for Discharge:	None
Historic Range in Depth to Water, Q1-99 to Q3-04	MW-1, 8.15 to 19.99 feet bgs
<u>Current Quarter Monitoring Data</u>	(See Figure 2 and Table 1)
Wells Monitored and Sampled:	Five wells- MW-1 through MW-5
Dissolved Oxygen Concentrations Measured In:	Five wells- MW-1 through MW-5

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7-Eleven Store #20244

Quarterly Groundwater Monitoring Report (3Q2004)

November 1, 2004

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Depth to Groundwater (DTW)	14.76 to 15.61 ft bgs
Average Change in Groundwater elevation Since Last Event:	1.03 foot decrease
Groundwater Flow Direction and Gradient:	South @ 0.008 foot per foot (Figure 2)
<u>Current Quarter Analytical Data</u>	(See Figure 3 and Table 1)
Maximum TPHg Concentrations	MW-2, 1,200 µg/L
Maximum Benzene Concentrations	MW-3, 340 µg/L
Maximum MtBE Concentrations	MW-3, 25,000 µg/L
Maximum TBA Concentrations	MW-3, 7,600 µg/L

BACKGROUND

On May 20, 1998, Fluor Daniel GTI supervised the advancement of four Geoprobe borings (GP-1 through GP-4) adjacent to the two 10,000-gallon USTs at the site. The work was required by the Contra Costa Environmental Health Department (CCEHD) prior to a proposed re-lining of the two 10,000-gallon USTs as part of a fuel system upgrade at the site. Soil sample analytical data indicated maximum benzene and total petroleum hydrocarbons as gasoline (TPHg) concentrations of 0.048 milligrams per kilogram (mg/kg) and 1.3 mg/kg, respectively. Methyl-tert-butyl ether (MtBE) was detected at a maximum concentration of 0.62 mg/kg. Grab groundwater samples collected from the bases of the borings contained up to 19 micrograms per liter (ug/L) benzene, 11,000 ug/L TPHg, and 4,800 ug/L MtBE. Based on analytical data from the Geoprobe borings, permit approval to upgrade/reline the USTs at the site was denied by the CCEHD, and the tanks were subsequently removed from the site.

On December 16, 1998, two 10,000-gallon USTs and one 6,000-gallon UST (with associated product piping) were removed from the site, and were not replaced. Analytical results of nine soil samples collected indicated that the highest residual benzene (0.0156 mg/kg), TPHg (110 mg/kg), MtBE (1.59 mg/kg) and tert-butyl alcohol (TBA) (0.865 mg/kg) concentrations were detected beneath the eastern end of the tank excavation and beneath the southern end of the fuel dispenser island.

To remove as much hydrocarbon adsorbed to soil as possible, the floor of the UST pit was excavated to a depth of 14.5 feet bgs, and the dispenser island area was excavated to a depth of 5 feet bgs. Maximum concentrations of benzene (0.2 mg/kg) and TPHg (68 mg/kg) were detected beneath the south end of the dispenser island excavation. The highest MtBE concentration (7.3 mg/kg) was detected beneath the southeast corner of the UST excavation. The southern end of the dispenser island excavation was further excavated to 8.5 feet bgs. A soil sample collected from the floor of the excavation contained a low concentration of MtBE (0.28 mg/kg) and did not contain detectable benzene and TPHg concentrations.

The RWQCB requested further assessment based upon the initial site investigation results. On January 22, 1999, IT Corporation supervised the installation of three 2-inch diameter

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groundwater monitoring wells (MW-1, MW-2, and MW-3). Benzene, TPHg, and MtBE concentrations in soil ranged up to 9.19 mg/kg, 1,330 mg/kg, and 12 mg/kg, respectively.

In September 1999, six Geoprobe soil borings (SB-1 through SB-6) were drilled at the site to total depths of between 19.5 and 28 feet bgs. TPHg was reported in soil at concentrations up to 20.4 mg/kg. Benzene, MtBE, and other oxygenates were not detected above laboratory reporting limits in the soil samples. Grab groundwater samples collected at the total depth of each boring contained dissolved concentrations ranging up to 1.12 ug/L benzene, 6.93 ug/L TPHg, and 6.79 ug/L MtBE (IT Corporation, 1999).

On August 24, 2001, IT Corporation supervised the installation of two 2-inch diameter groundwater monitoring wells (MW-4 and MW-5). Benzene and MtBE were not detected in soil at concentrations above laboratory reporting limits. TPHg concentrations in soil ranged from non-detectable to 12 mg/kg in sample MW-5 @ 10-10.5.

On September 14, 2004, SECOR submitted a Work Plan for Remediation Well Install and Oxygen Injection Feasibility Test to the RWQCB. The work plan proposed the installation of three oxygen injection wells (I-1 through I-3), and conducting an oxygen injection feasibility test. The work plan was approved by the RWQCB in a letter dated October 4, 2004.

MONITORING AND SAMPLING PROCEDURES

The depth to water was measured to within 0.01 feet bgs in monitoring wells MW-1 through MW-5 from the top of casing (TOC) using a water level indicator. Dissolved oxygen concentrations were also measured in each well using a YSI Model 550A dissolved oxygen meter equipped with a down hole sensor

Well purging and sampling equipment was thoroughly cleaned prior to purging and sampling each well. The sampling procedure for each well included measuring the water level and checking for the presence of liquid-phase hydrocarbons (LPH), using either an electronic indicator and a clear Teflon® bailer or an oil-water interface probe. Wells not containing LPH were purged of approximately three casing volumes of water (or to dryness) using a submersible pump or bailer. The equipment and purging methods used for the current sampling event are noted on the field data sheets in Attachment A. During purging, temperature, pH, and electrical conductivity were monitored. After purging, water levels were allowed to recover to 80% of the original levels prior to collection of the water sample. Groundwater samples were collected using a disposable Teflon® bailer, placed into appropriate Environmental Protection Agency (EPA) approved containers, labeled, logged onto chain-of-custody documents, and transported on ice to a California state-certified laboratory. Copies of the field notes are presented in Attachment A.

GROUNDWATER SAMPLE ANALYSES AND RESULTS

The groundwater samples collected from MW-1 through MW-5 were analyzed for TPHg, benzene, toluene, ethylbenzene, and xylenes (BTEX), and fuel oxygenates MtBE, TBA, diisopropyl ether (DIPE), ethyl-tert-butyl ether (EtBE), and tert-amyl-methyl ether (TAME) by EPA Method 8260B. The certified laboratory analytical report and chain-of-custody documentation are presented as Attachment B.

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Groundwater analytical results are presented on Figure 3, and are summarized in Tables 1 and 2. Hydrocarbon concentrations were generally consistent with historical data.

PURGE AND RINSATE WATER DISPOSAL

Water generated during well sampling and equipment cleaning was pumped into a SECOR truck-mounted water tank. The water was transferred into properly labeled 55-gallon drums and stored on-site. The drummed non-hazardous petroleum hydrocarbon contaminated water is transported quarterly by Belshire Environmental to Demenno Kerdoon in Compton, California, for disposal.

ATTACHMENTS

Figures

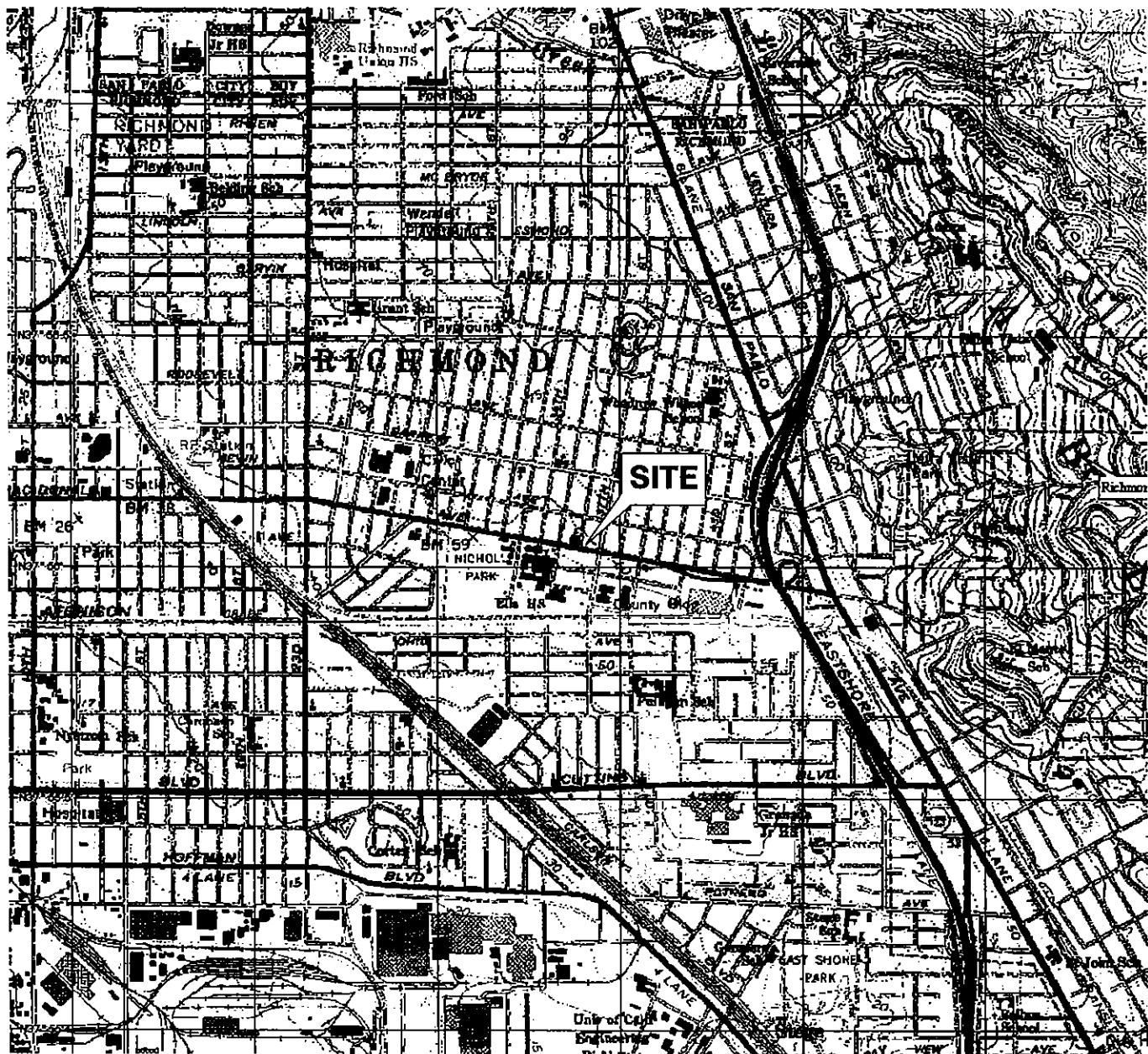
Tables

Attachment A – Field Notes

Attachment B – Certified Laboratory Analytical Reports and Chain-of-Custody Documentation

cc: Ms. Barbara Sieminski – Regional Water Quality Control Board, San Francisco Bay Region
Mr. Paul Andrews - Contra Costa County Environmental Health Division

FIGURES



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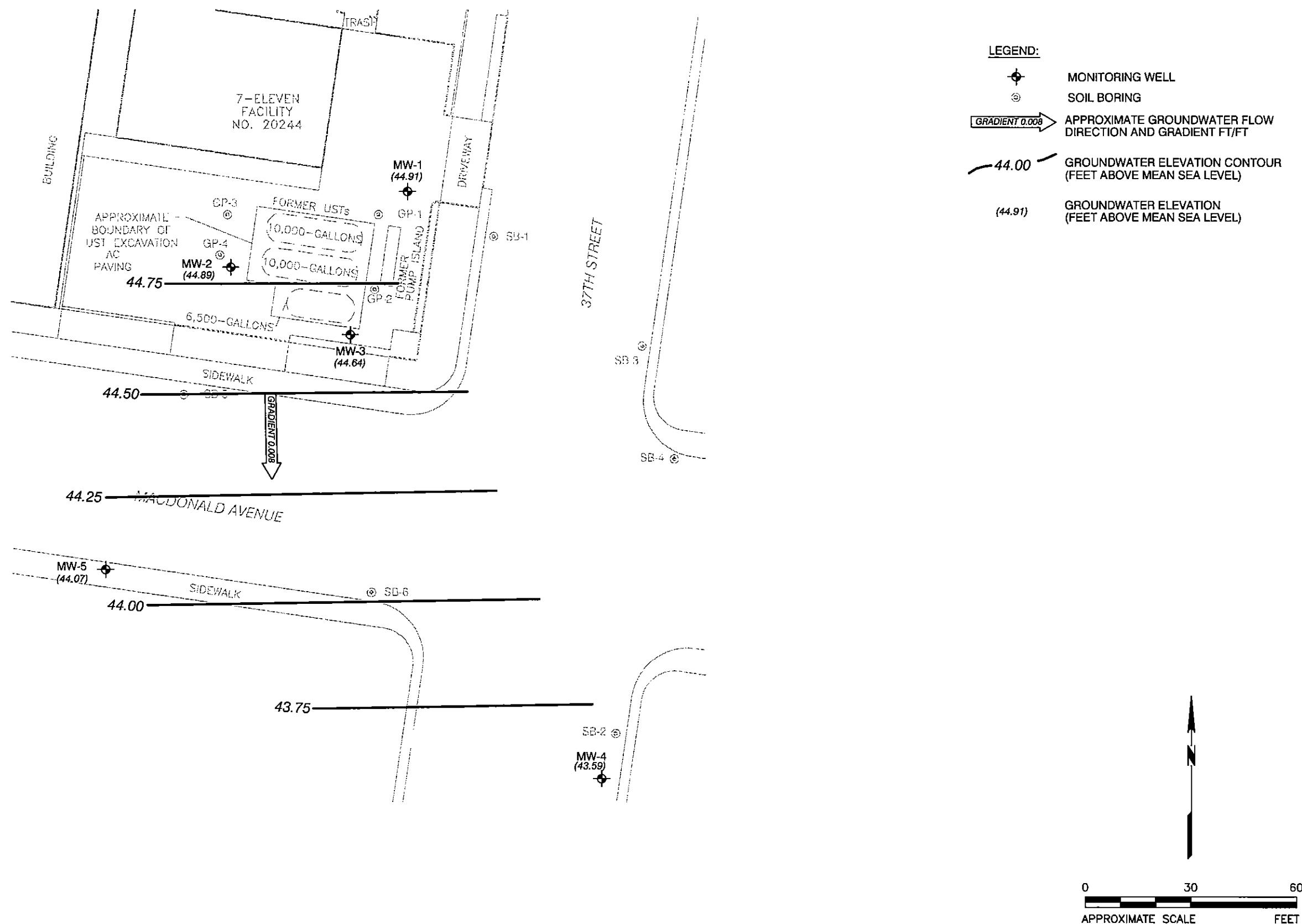
REFERENCE: DELORME TOPOQUAD, CALIFORNIA
NORTH REGION 5

0 2000 4000
SCALE IN FEET



DRAWN	PR
APPR	JSA
DATE	12DEC2002
JOB NO.	

FIGURE 1
7-ELEVEN, INC.
FACILITY NO. 20244
3625 MACDONALD AVENUE
RICHMOND, CALIFORNIA
SITE LOCATION MAP

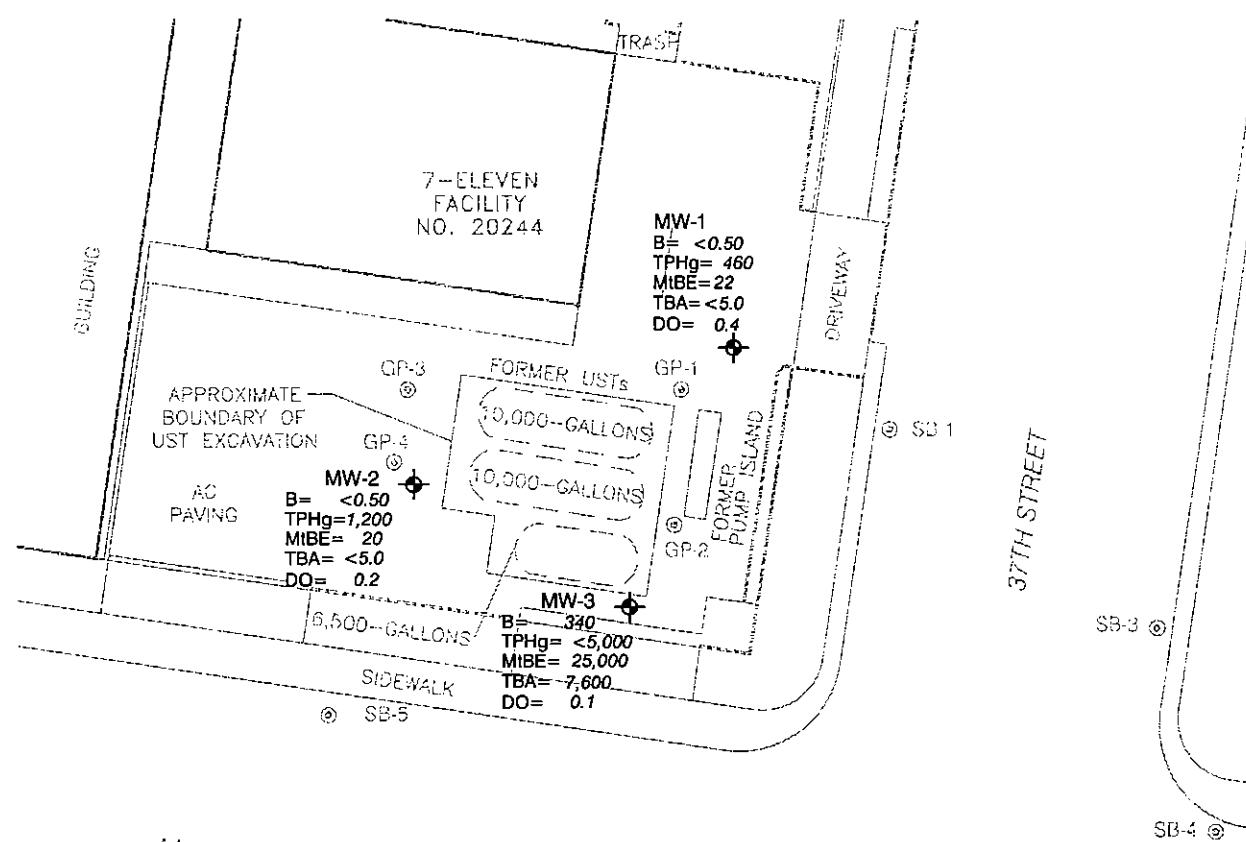


REFERENCE: THIS FIGURE IS BASED ON A "SITE PLAN" PROVIDED BY SHAW E & I, INC., DATED SEPTEMBER 2002, AND IS INTENDED FOR ILLUSTRATION ONLY.



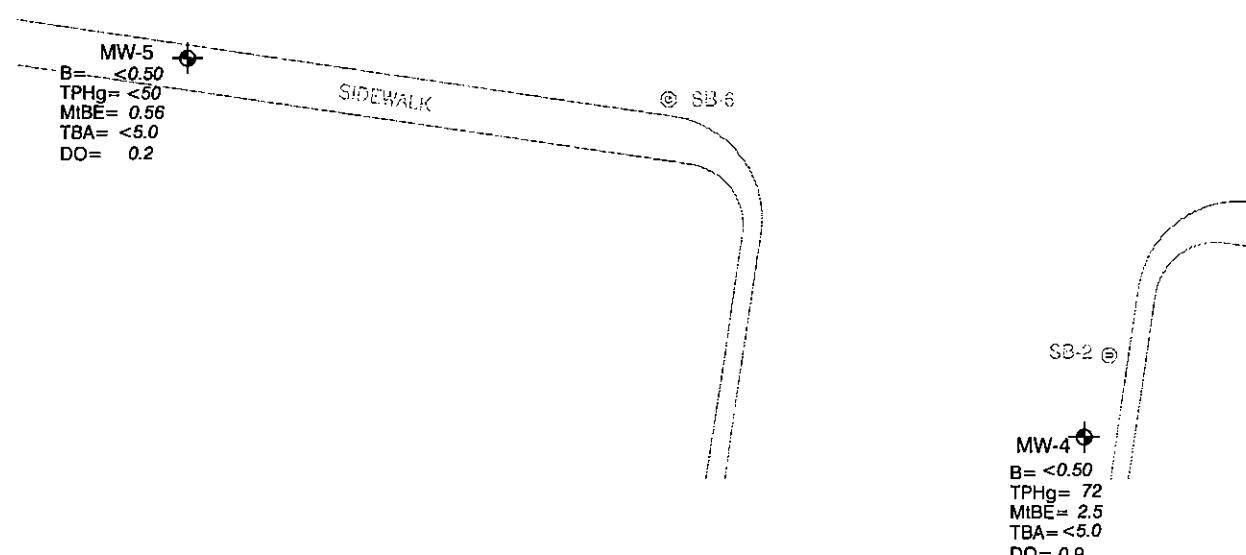
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REV. DATE	10/25/04 PR
JOB NO.	77EL.20244.04

FIGURE 2
7-ELEVEN, INC.
FACILITY NO. 20244
3625 MACDONALD AVENUE
RICHMOND, CALIFORNIA
GROUNDWATER ELEVATION
CONTOUR MAP
SEPTEMBER 27, 2004



LEGEND:

MONITORING WELL
SOIL BORING
B BENZENE ($\mu\text{g/L}$)
TPHg TOTAL PETROLEUM HYDROCARBONS AS GASOLINE ($\mu\text{g/L}$)
MIBE METHYL-TERT-BUTYL-ETHER ($\mu\text{g/L}$)
TBA TERT-BUTYL ALCOHOL ($\mu\text{g/L}$)
DO DISSOLVED OXYGEN (mg/L)
$\mu\text{g/L}$ MICROGRAMS PER LITER
mg/L MILLIGRAMS PER LITER



0 30 60
APPROXIMATE SCALE FEET

REFERENCE: THIS FIGURE IS BASED ON A "SITE PLAN" PROVIDED BY SHAW E & I, INC., DATED SEPTEMBER 2002, AND IS INTENDED FOR ILLUSTRATION ONLY.



DRAWN	CBD
APPR	JSA
REV. DATE	10/20/04 PR
JOB NO.	77EL.20244.04

FIGURE 3
7-ELEVEN, INC.
FACILITY NO. 20244
3625 MACDONALD AVENUE
RICHMOND, CALIFORNIA
GROUNDWATER HYDROCARBON CONCENTRATION MAP SEPTEMBER 27, 2004

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TABLES

Table 1
Third Quarter 2004 Groundwater Monitoring and Analytical Data

7-Eleven Store #20244
 3625 MacDonald Avenue
 Richmond, CA

Well ID/ Elevation (TOC)	Date	Benzene ($\mu\text{g/L}$)	Ethy- l Toluene ($\mu\text{g/L}$)	Ethy- l Xylene ($\mu\text{g/L}$)	TPHg ($\mu\text{g/L}$)	MtBE ($\mu\text{g/L}$)	TBA ($\mu\text{g/L}$)	DPE ($\mu\text{g/L}$)	ETBE ($\mu\text{g/L}$)	TAME ($\mu\text{g/L}$)	Notes	Dissolved Oxygen (mg/L)	DTW (feet)	SPT (feet)	WTE (feet)
MW-1 59.86	09/27/04	<0.50	<0.50	<0.50	460	22	<5.0	19	<0.50	<0.50	c	0.4	14.95	0.00	44.91
MW-2 59.65	09/27/04	<0.50	<0.50	<0.50	1,200	20	<5.0	1.5	<0.50	<0.50	c	0.2	14.76	0.00	44.89
MW-3 59.59	09/27/04	340	<50	360	<50	<5000	25,000	7,600	<50	<50		0.1	14.95	0.00	44.64
MW-4 59.20	09/27/04	<0.50	<0.50	<0.50	72	2.5	<5.0	<0.50	<0.50	<0.50	c	0.9	15.61	0.00	43.59
MW-5 58.94	09/27/04	<0.50	<0.50	<0.50	0.56	<5.0	<0.50	<0.50	<0.50	<0.50		0.2	14.87	0.00	44.07

Explanation

TPHg = Total petroleum hydrocarbons-as-gasoline

MIBE = Methyl-tert-butyl ether

TBA = Ter-butanol

DPE = Diisopropyl ether

ETBE = Ethyl-tert-butyl ether

TAME = Tert-anhy-methyl ether

DTW = Depth to water

SPT = Separate-phase hydrocarbon thickness

WTE = Water table elevation

TOC = Top of casing elevation in feet above mean sea level

Notes:

Samples analyzed by EPA Method 8260B

c = Hydrocarbons reported as TPHg do not exhibit a typical Gasoline chromatographic pattern.

Table 2
Historical Groundwater Monitoring and Analytical Data

7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, CA

Well ID	Date	Benzene (µg/L)	Ethyl-Benzene (µg/L)	Toluene (µg/L)	TPHg (µg/L)	MIBE 8020 (µg/L)	MIBE (µg/L)	TBA (µg/L)	DPE (µg/L)	E BE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	SPT (feet)	WTE (feet)			
Geoprobe Water Samples																		
GP-1W	05/20/98	12	7.9	15	0.68	1,400	83	—	—	—	—	—	—	—	—	—		
GP-2W	05/20/98	19	7.2	29	0.5	11,000	6,500	4,800	<5,000	<250	<250	<250	<250	—	—	—		
GP-3W	05/20/98	2.5	1.1	<0.5	<0.6	470	55	—	—	—	—	—	—	—	—	—		
GP-4W	05/20/98	0.5	2.4	11	43	1,400	2,500	—	—	—	—	—	—	—	—	—		
Soil Boring Water Samples																		
SB-1W	09/17/99	<0.3	<0.3	<0.3	<0.6	121	<5	6.93	<20	<5	<5	<5	<5	—	—	—		
SB-2W	09/17/99	0.78	1.16	<0.3	1.17	<50	6.79	<20	<5	<5	<5	<5	<5	—	—	—		
SB-3W	09/17/99	1.12	<0.3	0.53	1.68	105	<5	<5	<20	<5	<5	<5	<5	—	—	—		
SB-4W	09/17/99	<0.3	3.65	4.6	781	<5	<5	<20	<5	<5	<5	<5	<5	—	—	—		
SB-5W	09/17/99	<0.3	0.5	<0.3	<0.6	199	5.57	5.61	<20	<5	<5	<5	<5	—	—	—		
Monitoring Well Samples																		
MW-1	59.86	03/19/99	<0.3	<0.3	<0.3	<0.6	185	—	33.6	<20	10.4	<5	<5	—	1.5	10.34	0.00	
		05/31/99	<0.3	<0.3	<0.3	<0.6	465	—	105	<20	18.6	<5	<5	—	1.0	12.77	0.00	
		09/15/99	1.55	0.38	0.48	1.43	254	56.4	47.9	<20	14.5	<5	<5	—	—	14.60	0.00	
		12/14/99	1.31	0.93	1.32	<0.6	351	51.6	34.7	<20	23.2	<5	<5	<1	1.6	19.99	0.00	
		03/01/00	<0.3	<0.3	<0.3	<0.6	249	10.9	13.2	<20	<5	<5	<5	<5	—	8.15	0.00	
		03/29/00	—	—	<1	<1	140	—	—	—	7.8	<2	<2	—	a	—	10.66	0.00
		06/05/00	<0.5	<0.5	<0.5	<1	360	—	55	<120	26	<5	<5	—	1.2	12.50	0.00	
		09/18/00	<0.5	<0.5	<0.5	<1.5	180	—	21	<120	18	<5	<5	—	0.3	14.30	0.00	
		12/04/00	<0.5	<0.5	<0.5	<1	120	—	13	<50	<2	<2	<2	—	0.4	14.50	0.00	
		03/12/01	<0.5	<0.5	<0.5	<1	170	—	56	<50	20	<2	<2	—	0.5	10.30	0.00	
		06/05/01	0.7	<0.5	<0.5	<0.5	<0.5	<50	—	130	23	<5	<5	—	0.6	14.00	0.00	
		09/21/01	<0.5	<0.5	<0.5	<0.5	<0.5	<50	—	14	<20	7.4	<5	<5	0.6	15.70	0.00	
		12/05/01	<0.5	<0.5	<0.5	<0.5	<50	—	14	<20	18	<5	<5	—	1.5	11.60	0.00	
		03/01/02	<0.5	<0.5	<0.5	<0.5	<50	—	35	<20	18	<5	<5	—	1.3	11.91	0.00	
		06/06/02	<0.5	<0.5	<0.5	<0.5	<50	—	31	<10	13	<1	<1	—	—	13.35	0.00	
		09/06/02	<0.5	0.85	<0.5	<0.5	<50	—	27	7.4	13	<0.5	<0.5	—	1.1	14.82	0.00	
		11/22/02	<0.5	<0.5	<0.5	<0.5	<50	—	13	<5	9.9	<0.5	<0.5	—	1.0	14.82	0.00	
		03/26/03	<0.50	<0.50	<0.50	<0.50	<50	—	34	<5.0	6.3	<0.50	<0.50	—	c	0.3	11.91	0.00
		06/02/03	<0.50	<0.50	<0.50	<0.50	<50	—	53	6.4	11	<0.50	<0.50	—	c	1.4	12.74	0.00
		09/02/03	<0.50	<0.50	<0.50	<0.50	<50	—	25	<5.0	9.5	<0.50	<0.50	—	b,c	0.9	14.18	0.00
		12/22/03	<0.50	<0.50	<0.50	<0.50	<50	—	9.9	<5.0	5.1	<0.50	<0.50	—	c	1.1	12.20	0.00
		03/10/04	<0.50	<0.50	<0.50	<0.50	<50	—	24	<5.0	7.3	<0.50	<0.50	—	c	0.3	10.66	0.00
		06/16/04	—	<0.50	<0.50	<0.50	<50	—	—	<5.0	19	<0.50	<0.50	—	c	0.4	14.95	0.00
		09/27/04	<0.50	<0.50	<0.50	<0.50	<50	—	22	<5.0	—	<0.50	<0.50	—	c	0.4	14.95	0.00

Table 2
Historical Groundwater Monitoring and Analytical Data

7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, CA

Well ID/ Elevation (TOC)	Date	Benzene		Toluene		Xylenes		TPHg		MTBE		8020		MTBE		TBA		DIBE		TAME		1,2-DCA		EDB		SPT		WTE	
		Ethyl Benzene ($\mu\text{g/L}$)	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Xylenes ($\mu\text{g/L}$)	TPHg ($\mu\text{g/L}$)	MTBE ($\mu\text{g/L}$)	8020 ($\mu\text{g/L}$)	MTBE ($\mu\text{g/L}$)	TBA ($\mu\text{g/L}$)	DIBE ($\mu\text{g/L}$)	1,2-DCA ($\mu\text{g/L}$)	EDB ($\mu\text{g/L}$)	SPT (feet)	WTE (feet)	Dissolved Oxygen (mg/L)	Notes	DTW (feet)	SPT (feet)	WTE (feet)									
MW-2	03/19/99	<0.3	<0.3	<0.3	<0.6	384	—	83.9	<20	<5	<5	<5	<20	<20	<20	<5	<5	<5	<5	<5	<5	<5	<5	<5	1.8	10.16	0.00	49.49	
	05/31/99	<0.3	<0.3	<0.3	<0.6	578	—	262	<80	<5	<5	<5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	1.7	12.60	0.00	47.05	
	09/15/99	1.75	0.44	1.06	1.56	362	271	335	<20	<5	<5	<5	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	—	14.44	0.00	45.21	
	12/14/99	1.03	0.57	1.05	<0.6	566	296	296	<40	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	1.8	20.04	0.00	39.61	
	03/01/00	<0.3	<0.3	<0.3	<0.6	434	63.3	71	<20	<5	<5	<5	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	a	8.10	0.00	51.55	
	03/29/00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	06/05/00	<5	<5	<10	<10	400	—	500	<500	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	—	10.48	0.00	49.17	
	09/18/00	<0.5	<0.5	<1	<1	920	—	800	<620	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	1.5	12.33	0.00	47.32	
	12/04/00	<0.5	<0.5	<1.5	<1.5	480	—	400	<620	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	0.4	14.16	0.00	45.49	
	03/12/01	<0.5	<0.5	<1	<1	300	—	150	<100	<4	<4	<4	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.7	10.12	0.00	49.53	
	06/05/01	1.5	<1	1.9	<2	440	—	410	<250	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.8	13.85	0.00	45.80	
	09/21/01	1.6	0.67	<0.5	0.52	<50	—	390	<100	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	0.5	15.52	0.00	44.13	
	12/05/01	<0.5	<0.5	<0.5	<0.5	<50	—	130	<20	<5	<5	<5	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	1.0	11.50	0.00	48.15	
	03/01/02	<0.5	<0.5	<0.5	<0.5	<50	—	180	<20	<5	<5	<5	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	1.2	11.75	0.00	47.90	
	06/06/02	<0.5	<0.5	<0.5	<0.5	400	120	120	<25	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	—	—	—	—		
	09/06/02	<0.5	<0.5	<0.5	<0.5	390	93	130	<25	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	1.1	14.64	0.00	45.01		
	11/22/02	<0.5	<0.5	<0.5	<0.5	670	—	78	<5	1.3	<0.5	<0.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.9	14.80	0.00	44.85	
	03/26/03	<0.50	<0.50	<0.50	<0.50	<5.0	1,800	—	45	<5.0	0.98	0.98	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	c	0.4	11.74	0.00	47.91	
	06/02/03	<0.50	<0.50	<0.50	<0.50	<0.50	1,800	—	39	<5.0	0.96	0.96	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	c	1.6	12.56	0.00	47.09	
	09/02/03	<0.50	<0.50	<0.50	<0.50	<0.50	1,300	—	44	<5.0	1.6	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	b,c	0.4	13.99	0.00	45.66	
	12/22/03	<0.50	<0.50	<0.50	<0.50	<0.50	1,100	—	26	<5.0	0.84	0.84	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	c	0.5	12.03	0.00	47.62	
	03/10/04	<0.50	<0.50	<0.50	<0.50	<0.50	1,100	—	18	<5.0	0.83	0.83	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	c	0.4	10.49	0.00	49.16	
	06/16/04	<0.50	<0.50	<0.50	<0.50	<0.50	1,300	—	19	<5.0	0.61	0.61	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	c	0.6	13.57	0.00	46.08	
	09/27/04	<0.50	<0.50	<0.50	<0.50	<0.50	1,200	—	20	<5.0	1.5	1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.2	14.76	0.00	44.89		

Table 2
Historical Groundwater Monitoring and Analytical Data

7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, CA

Well ID/ Elevation (TOC)	Date	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethyl- Benzene ($\mu\text{g/L}$)	Xylene ($\mu\text{g/L}$)	TPHg ($\mu\text{g/L}$)	MBoE 8020 ($\mu\text{g/L}$)	MBoE TBA ($\mu\text{g/L}$)	DPE TBA ($\mu\text{g/L}$)	EBe TAME ($\mu\text{g/L}$)	TAME ($\mu\text{g/L}$)	1,2- DCA ($\mu\text{g/L}$)	EDB ($\mu\text{g/L}$)	Notes	Dissolved Oxygen (mg/L)	DTW (feet)	WTE (feet)	
MW-3	59.59	03/19/99	696	786	552	777	62,400	--	84,400	<8,000	<2,000	<2,000	<2,000	--	1.0	10.73	0.00	48.86
	05/31/99	664	406	435	402	39,200	--	92,800	<20,000	<5,000	<5,000	<5,000	--	1.2	12.91	0.00	46.68	
	09/15/99	386	104	263	206	34,100	65,200	80,100	<8,000	<2,000	<2,000	<2,000	--	--	14.54	0.00	45.05	
	12/14/99	515	<30	310	67	27,600	97,000	81,900	<10,000	<2,500	<2,500	<2,500	<500	<500	1.9	20.03	0.00	39.56
	03/01/00	701	744	509	927	47,300	63,300	59,100	<2,000	<500	<500	<500	--	--	a	11.24	0.00	48.35
	03/29/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10.58	0.00	49.01
	06/05/00	770	74	120	<10	15,000	--	54,000	<50,000	<2,000	<2,000	<2,000	--	--	1.7	11.88	0.00	47.71
	09/18/00	300	<5	110	<10	23,000	--	47,000	<50,000	<2,000	<2,000	<2,000	--	--	0.3	15.38	0.00	44.21
	12/04/00	490	13	360	86	22,000	--	42,000	<50,000	<2,000	<2,000	<2,000	--	--	0.5	14.32	0.00	45.27
	03/12/01	370	95	180	180	17,000	--	52,000	<50,000	<2	<2,000	<2,000	--	--	0.7	11.20	0.00	48.39
	06/05/01	310	<12	100	<25	17,000	--	47,000	<62,000	<2,500	<2,500	<2,500	--	--	0.5	14.46	0.00	45.13
	09/21/01	240	<10	120	<10	9,900	--	69,000	<10,000	<2,500	<2,500	<2,500	--	--	0.4	15.57	0.00	44.02
	12/05/01	430	<5	310	19	6,100	--	75,000	<10,000	<2,500	<2,500	<2,500	--	--	0.9	12.10	0.00	47.49
	03/01/02	580	270	390	<10	11,000	--	35,000	<10,000	<2,500	<2,500	<2,500	--	--	1.1	12.42	0.00	47.17
	06/06/02	510	76	370	24	7,500	40,000	37,000	<10,000	<1,000	<1,000	<1,000	<1,000	<1,000	--	13.70	0.00	45.89
	09/06/02	340	33	220	<10	2,900	36,000	43,000	<10,000	<1,000	<1,000	<1,000	<1,000	<1,000	1.0	14.78	0.00	44.81
	11/22/02	330	<50	210	<50	<5,000	--	35,000	840	<50	<50	<50	<50	<50	0.9	14.93	0.00	44.66
	03/26/03	490	<100	310	<100	<10,000	--	47,000	<1,000	<100	<100	<100	<100	<100	0.2	11.99	0.00	47.60
	06/02/03	400	<100	290	<100	<10,000	--	41,000	<1,000	<100	<100	<100	<100	<100	0.3	12.71	0.00	46.88
	09/02/03	160	<100	<100	<100	<10,000	--	43,000	<1,000	<100	<100	<100	<100	<100	0.2	14.16	0.00	45.43
	12/22/03	270	<50	130	<50	<5,000	--	34,000	<500	<50	<50	<50	<50	<50	0.5	12.34	0.00	47.25
	03/10/04	380	6.0	280	21	4,700	--	42,000	860	1.2	12	12	--	--	0.2	11.83	0.00	47.76
	06/16/04	360	<100	260	<100	<10,000	--	38,000	<1,000	<100	<100	<100	<100	<100	0.5	13.80	0.00	45.79
	09/27/04	340	<50	360	<50	<5,000	--	25,000	7,600	<50	<50	<50	<50	<50	0.1	14.95	0.00	44.64

Table 2
Historical Groundwater Monitoring and Analytical Data

7-Eleven Store #20244
33625 MacDonald Avenue
Richmond CA

Well ID	Elevation (TOC)	Date	Groundwater Quality Data (ppm)												Soil Test Results (feet)					
			Ethyl Benzene	Toluene	Xylene	TPHg	MBe 8020	MBe	TBA	DPE	EtBE	TAME	1,2-DCA	EDB	Notes	Dissolved Oxygen (mg/L)	DTW (feet)	WTE (feet)		
	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(feet)	(feet)			
MW-4	59.20	09/21/01	3.3	<0.5	2.4	0.84	210	—	1,100	<100	<25	<25	<25	<5	0.7	16.10	0.00	43.10		
	12/05/01	<0.5	<0.5	<0.5	0.65	92	—	<5	<20	<5	<5	<5	<5	<0.5	0.7	13.55	0.00	45.65		
	03/01/02	<0.5	<0.5	<0.5	<0.5	<50	—	<5	<20	<5	<5	<5	<5	<0.5	0.9	13.73	0.00	45.47		
	06/06/02	<0.5	<0.5	<0.5	<0.5	<50	<5	0.62	<5	<0.5	<0.5	<0.5	<0.5	<0.5	—	—	14.50	0.00	44.70	
	09/06/02	<0.5	<0.5	<0.5	<0.5	<50	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	—	1.0	15.35	0.00	43.85	
	11/22/02	<0.5	<0.5	<0.5	<0.5	<50	—	0.64	<5	<0.5	<0.5	<0.5	<0.5	<0.5	—	1.3	15.42	0.00	43.78	
	03/26/03	<0.50	<0.50	<0.50	<0.50	<50	—	0.93	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	b	0.3	13.58	0.00	45.62	
	06/02/03	<0.50	<0.50	<0.50	<0.50	<50	—	1.1	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	b	1.8	14.23	0.00	44.97	
	09/02/03	<0.50	<0.50	<0.50	<0.50	<50	—	1.6	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	b	1.7	14.74	0.00	44.46	
	12/22/03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	03/10/04	<0.50	<0.50	<0.50	<0.50	<50	—	0.89	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	c	0.3	12.99	0.00	46.21	
	06/16/04	<0.50	<0.50	<0.50	<0.50	<50	—	1.9	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	c	0.8	14.91	0.00	44.29	
	09/27/04	<0.50	<0.50	<0.50	<0.50	72	—	2.5	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	c	0.9	15.61	0.00	43.59	
MW-5	58.94	09/21/01	1.1	0.52	1.4	1.6	<50	—	<5	<20	<5	<5	<5	<5	—	0.5	15.35	0.00	43.59	
	12/05/01	<0.5	<0.5	<0.5	<0.5	<50	—	<5	<20	<5	<5	<5	<5	<5	—	1.1	12.60	0.00	46.34	
	03/01/02	<0.5	<0.5	<0.5	<0.5	<50	—	<5	<20	<5	<5	<5	<5	<5	—	1.0	12.43	0.00	46.51	
	06/06/02	<0.5	<0.5	<0.5	<0.5	<50	<5	0.65	<5	<0.5	<0.5	<0.5	<0.5	<0.5	—	—	13.40	0.00	45.54	
	09/06/02	<0.5	<0.5	<0.5	<0.5	<50	<5	0.53	<5	<0.5	<0.5	<0.5	<0.5	<0.5	—	1.0	14.50	0.00	44.44	
	11/22/02	<0.5	<0.5	<0.5	<0.5	<50	—	0.75	<5	<0.5	<0.5	<0.5	<0.5	<0.5	—	1.0	14.92	0.00	44.02	
	03/26/03	<0.50	<0.50	<0.50	<0.50	<50	—	<50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	—	0.5	12.20	0.00	46.74	
	06/02/03	<0.50	<0.50	<0.50	<0.50	<50	—	<50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	—	3.4	12.96	0.00	45.98	
	09/02/03	<0.50	<0.50	<0.50	<0.50	<50	—	0.79	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	—	b	0.7	13.93	0.00	45.01
	12/22/03	<0.50	<0.50	<0.50	<0.50	<50	—	0.72	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	—	0.3	12.61	0.00	46.33	
	03/10/04	<0.50	<0.50	<0.50	<0.50	<50	—	<50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	—	0.3	11.26	0.00	47.68	
	06/16/04	<0.50	<0.50	<0.50	<0.50	<50	—	<50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	—	0.7	13.79	0.00	45.15	
	09/27/04	<0.50	<0.50	<0.50	<0.50	50	—	<50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	—	0.2	14.87	0.00	44.07	

Table 2
Historical Groundwater Monitoring and Analytical Data

7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, CA

Well ID (TOC)	Date	Ethyl Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	MIBE a820 ($\mu\text{g/L}$)	TPHg ($\mu\text{g/L}$)	TBA ($\mu\text{g/L}$)	DPE ($\mu\text{g/L}$)	EtBE ($\mu\text{g/L}$)	TAME ($\mu\text{g/L}$)	1,2-DCA DCA ($\mu\text{g/L}$)	Notes	Dissolved Oxygen (mg/L)	DTW (feet)	SPT (feet)	WTE (feet)
Explanation															
TPHg = Total petroleum hydrocarbons-as-gasoline				1,2-DCA = 1,2-dichloroethane											
MIBE = Methyl-tert-butyl ether				EDB = 1,2-dibromoethane											
TBA = Tert-butanol				DTW = Depth to water											
DPE = Disopropyl ether				SPT = Separate-phase hydrocarbon thickness											
EtBE = Ethyl-tert-butyl ether				WTE = Water table elevation											
TOC = Tert-amyl-methyl ether				TOC = Top of casing elevation in feet above mean sea level											
Notes															
Historical data prior to 03/26/03 sample date provided by Shaw E&I.															
Samples analyzed using EFA Method 8260B starting with 03/26/03 sample date.															
a = Suspected malfunction of gauging probe on 03/01/00; wells regauged 03/29/00.															
b = Matrix Spike/Matrix Spike Duplicate Results for MIBE were affected by the analyte concentration already present in the un-spiked sample.															
c = Hydrocarbons reported as TPHg do not exhibit a typical Gasoline chromatographic pattern.															
d = TBA may be biased slightly high. A fraction of MIBE (typically less than 1%) converts to TBA during the analysis of water samples. Kiff considers this conversion effect to be mathematically significant in samples that contain MIBE/TBA in ratios of over 20:1.															

Table 3
Soil Boring and Well Construction Details

7-Eleven Site No. 20244
3625 MacDonald Avenue
Richmond, California

Well ID	Drill Date	Well Depth (feet bgs)	Well Diameter (inches)	Top (feet bgs)	Bottom (feet bgs)	Screen Length (feet)	Comments
Soil Borings							
GP-1	05/20/98	21	1.5	--	--	--	Geoprobe boring
GP-2	05/20/98	21	1.5	--	--	--	Geoprobe boring
GP-3	05/20/98	16	1.5	--	--	--	Geoprobe boring
GP-4	05/20/98	18	1.5	--	--	--	Geoprobe boring
SB-1	09/17/99	19.5	1.5	--	--	--	Soil boring
SB-2	09/17/99	20	1.5	--	--	--	Soil boring
SB-3	09/17/99	28	1.5	--	--	--	Soil boring
SB-4	09/17/99	20	1.5	--	--	--	Soil boring
SB-5	09/17/99	20	2	--	--	--	Soil boring
SB-6	09/17/99	24	2	--	--	--	Soil boring
Monitoring Wells							
MW-1	01/22/99	20	2	5	20	15	
MW-2	01/22/99	20	2	5	20	15	
MW-3	01/22/99	24.5	2	5	20	15	
MW-4	08/24/01	24.5	2	14.5	24.5	10	
MW-5	08/24/01	24.5	2	14.5	24.5	10	
Proposed Remediation Test Wells							
I-1	Proposed	25	0.75	22.5	25	2.5	Ceramic steel diffusion tip
I-2	Proposed	25	0.75	22.5	25	2.5	Ceramic steel diffusion tip
I-3	Proposed	25	0.75	22.5	25	2.5	Ceramic steel diffusion tip
Explanation							
Wells are of poly-vinyl-chloride (PVC) construction							
bgs = Below ground surface							

**ATTACHMENT A
FIELD NOTES**

Quarterly Groundwater Monitoring
Report - Third Quarter 2004
7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, California

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.04.0702
SITE ADDRESS:	3625 MacDonald Avenue	START DATE:	9-27-04
	Richmond, CA	DATE PREPARED:	09/27/04
PREPARED FOR:	Peng Vang	PREPARED BY:	Tom Miller

SITE VISITATION REPORT

Name(s) Peng Vang
 Arrival Time: 1:00
 Weather Notations: SUN

Date: 9-27-04 Did you call in? Yes No
 Departure Time: Who did you call? Tom Miller
CLOUDY RAIN SNOW Temperature 73 F

DRUM INVENTORY

<u>1</u>	WATER	<u> </u>	CARBON	<u> </u>	TOTAL OPEN TOP	<u>1</u>
	SOIL		EMPTY		TOTAL BUNG TOP	

Traffic - moderate

HEALTH AND SAFETY ASSESSMENT

Traffic moderate to heavy, Setup delineator for visibility & safety. Watched for foot traffic

CALIBRATION

Ec	Calibration Reading	<u>14.13</u>				
pH	Two Pt. Calibration:	Reading 1	<u>7.01</u>	Reading 2	<u>4.01</u>	

DO Calibration

Pre-Calibration reading	<u>8.2</u>	Calibration Reading	<u>8.0</u>	Post Calibration Reading	<u>9.3</u>
Agitated Water	<u>8.2</u>				

DESCRIPTION OF ACTIVITIES ONSITE AND NOTES

Arrived at site. Reviewed HASP- check in with store worker. Located open wells - monitor for PT, DO, DTW, DTB. Setup around work area & track purge well. record ph, ec, temp. Sample well - decan - transfer water to drum.

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.04.0702
SITE ADDRESS:	3625 MacDonald Avenue	START DATE:	9-27-04
	Richmond, CA	DATE PREPARED:	09/27/04

PREPARED FOR: Peng Vang

PREPARED BY: Tom Miller

GROUNDWATER GAUGING FORM

MEASURED TO TOC OR GRADE?

Top of Casing

WELL I.D.	CONST. DTB	WELL DIAM.	WELL ELEV. TOC	DTW	GAUGED DTB	DT PPT	D.O. (mg/L)	80% RECCHG	ELEV. WATER	COMMENTS	
										Please note if well needs locking cap or street box repair.	
MW-4	25	2"	59.20	15.61	24.03		.9				
MW-5	25	2"	58.94	14.87	24.12		1.2				
MW-1	20	2"	59.86	14.95	19.61		.4				
MW-2	20	2"	59.65	14.76	19.82		.2				
MW-3	20	2"	59.59	14.96	19.90		.1				
Estimated Purge Water Volume						27 gallons		0.56 Drums			

Please verify DTB in "Gauged DTB" column.

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 7-Eleven Store #20244 PURGED BY: Peng Vang WELL I.D.: MW- 1
CLIENT NAME: 7-Eleven, Inc. SAMPLED BY: Peng Vang SAMPLE I.D.: MW- 3
LOCATION: 3625 MacDonald Avenue, Richmond, CA QA SAMPLES: None

DATE PURGED 9-27-04 START (2400hr) 1550 END (2400hr) 1602

DATE SAMPLED 9-27-04 SAMPLE TIME (2400hr) 1610

SAMPLE TYPE: Groundwater Surface Water Treatment Effluent Other

CASING DIAMETER: 2" X 3" (0.38) 4" (0.67) 5" (1.02) 6" (1.50) 8" (2.60) Other ()

DEPTH TO BOTTOM (feet) = 19.61 CASING VOLUME (gal) = 1.0

DEPTH TO WATER (feet) = 14.95 CALCULATED PURGE (gal) = 3.0

WATER COLUMN HEIGHT (feet) = 4.166 ACTUAL PURGE (gal) = 3.65

FIELD MEASUREMENTS

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 15.09 SAMPLE TURBIDITY: Low

SAMPLE TURBIDITY: Low

80% RECHARGE: YES NO ANALYSES: BTEX, TPHg, 5 Oxygenates Via EPA 8260B

ODOR: SAMPLE VESSEL / PRESERVATIVE: HCL

PURGING EQUIPMENT **SAMPLING EQUIPMENT**

PURGING EQUIPMENT

SAMPLING EQUIPMENT

Bladder Pump	Bailer (Teflon)
Centrifugal Pump	Bailer (PVC)
X Submersible Pump	Bailer (Stainless Steel)
Peristaltic Pump	Dedicated

Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC or disposable)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated

Other:

Other:

Pump Depth: _____

WELL INTEGRITY: *Good* LOCK#: *1441*

REMARKS ✓ ✓ ✓ ✓

SIGNATURE:  Page 1 of 1

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 7-Eleven Store #20244 PURGED BY: Peng Vang WELL I.D.: MW- 2
CLIENT NAME: 7-Eleven, Inc. SAMPLED BY: Peng Vang SAMPLE I.D.: MW- 2
LOCATION: 3625 MacDonald Avenue, Richmond, CA QA SAMPLES: None

DATE PURGED 9-27-04 START (2400hr) 1645 END (2400hr) 1657

DATE SAMPLED 9-27-04 SAMPLE TIME (2400hr) 1705

SAMPLE TYPE: Groundwater Surface Water Treatment Effluent Other

CASING DIAMETER: 2" X 3" (0.38) 4" (0.67) 5" (1.02) 6" (1.50) 8" (2.60) Other ()

DEPTH TO BOTTOM (feet) = 19.82 Casing Volume (gal) = 1.0

DEPTH TO WATER (feet) = 14.76 CALCULATED PURGE (gal) = 3.0

WATER COLUMN HEIGHT (feet) = 5.06 ACTUAL PURGE (gal) = 3.0

FIELD MEASUREMENTS

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 14.48 SAMPLE TURBIDITY: Low

80% RECHARGE: YES NO ANALYSES: BTEX, TPHg, 5 Oxygenates Via EPA 8260B

ODOR: *[Signature]* SAMPLE VESSEL / PRESERVATIVE: HCL

PURGING EQUIPMENT

Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated _____

Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC or disposable)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated _____

Other: _____

Other: _____ Other: _____

WELL INTEGRITY: good LOCK#: yes
REMARKS: D ?

REMARKS: DO = 12

Digitized by srujanika@gmail.com

SIGNATURE: Page _____ of _____

SIGNATURE:

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 7-Eleven Store #20244 PURGED BY: Peng Vang WELL I.D.: MW- 3
CLIENT NAME: 7-Eleven, Inc. SAMPLED BY: Peng Vang SAMPLE I.D.: MW- 3
LOCATION: 3625 MacDonald Avenue, Richmond, CA QA SAMPLES: None

DATE PURGED 9-27-64 START (2400hr) 1615 END (2400hr) 1625

DATE SAMPLED 9-27-07 SAMPLE TIME (2400hr) 1635

SAMPLE TYPE: Groundwater Surface Water Treatment Effluent Other

CASING DIAMETER: 2" X (0.17) 3" (0.38) 4" (0.67) 5" (1.02) 6" (1.50) 8" (2.60) Other ()

DEPTH TO BOTTOM (feet) = 19.90 Casing Volume (gal) = 110

DEPTH TO WATER (feet) = 14.95 CALCULATED PURGE (gal) = 2.0

WATER COLUMN HEIGHT (feet) = 4.95 ACTUAL PURGE (gal) = 3.0

FIELD MEASUREMENTS

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 15.0 SAMPLE TURBIDITY: No

SAMPLE TURBIDITY: No

80% RECHARGE: YES NO **ANALYSES:** BTEX, TPHg, 5 Oxygenates Via EPA 8260B

ODOR: HCl SAMPLE VESSEL / PRESERVATIVE: HCl

PURGING EQUIPMENT

SAMPLING EQUIPMENT

Centrifugal Pump Baler (PVC) Centrifugal Pump
 Submersible Pump Bailer (Stainless Steel) Submersible Pump

Peristaltic Pump Dedicated _____

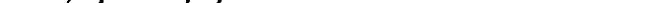
Other: _____

Temp Depth: _____

WELL INTEGRITY: good LOCK#: yes

REMARKS: D0 -

Digitized by srujanika@gmail.com

SIGNATURE:  Page ____ of ____

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 7-Eleven Store #20244 PURGED BY: Peng Vang WELL I.D.: MW- 4
CLIENT NAME: 7-Eleven, Inc. SAMPLED BY: Peng Vang SAMPLE I.D.: MW- 4
LOCATION: 3625 MacDonald Avenue, Richmond, CA QA SAMPLES: None

DATE PURGED 9-27-04 START (2400hr) 1440 END (2400hr) 1453

DATE SAMPLED 9-27-84 SAMPLE TIME (2400hr) 1505

SAMPLE TYPE: Groundwater X Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" X 3" (0.17) 4" (0.38) 5" (0.67) 6" (1.02) 8" (1.50) Other ()

DEPTH TO BOTTOM (feet) = 24.03 CASING VOLUME (gal) = 2.0

DEPTH TO WATER (feet) = 15.61 CALCULATED PURGE (gal) = 1.1

WATER COLUMN HEIGHT (feet) = 8.41 ACTUAL PURGE (gal) = 1.8

FIELD MEASUREMENTS

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 15.77 SAMPLE INCLINATION: 0 SAMPLE TURBIDITY: Low

SAMPLE TURBIDITY: Low

80% RECHARGE: YES NO ANALYSES: BTEX, TPHg, 5 Oxygenates Via EPA 8260B

ODOR: *(Signature)* SAMPLE VESSEL / PRESERVATIVE: HCL

PURGING EQUIPMENT

<input type="checkbox"/> Bladder Pump	<input type="checkbox"/> Bailier (Teflon)
<input type="checkbox"/> Centrifugal Pump	<input type="checkbox"/> Bailier (PVC)
<input checked="" type="checkbox"/> Submersible Pump	<input type="checkbox"/> Bailier (Stainless Steel)
<input type="checkbox"/> Peristaltic Pump	<input type="checkbox"/> Dedicated

Other:

Pump Depth: _____

SAMPLING EQUIPMENT

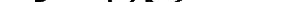
Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC or disposable)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated

Other:

WELL INTEGRITY: Good

LOCK#: yes

REMARKS: D.D.-9

SIGNATURE:  Page _____ of _____

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 7-Eleven Store #20244 PURGED BY: Peng Vang WELL I.D.: MW- 5
CLIENT NAME: 7-Eleven, Inc. SAMPLED BY: Peng Vang SAMPLE I.D.: MW- 5
LOCATION: 3625 MacDonald Avenue, Richmond, CA QA SAMPLES: None

DATE PURGED 9-27-04 START (2400hr) 1515 END (2400hr) 1529

DATE SAMPLED 9-27-04 SAMPLE TIME (2400hr) 1540

SAMPLE TYPE: Groundwater X Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" X (0.17) 3" (0.38) 4" (0.67) 5" (1.02) 6" (1.50) 8" (2.60) Other ()

DEPTH TO BOTTOM (feet) = 24.12 Casing Volume (gal) = 2.0

DEPTH TO WATER (feet) = 14.87 CALCULATED PURGE (gal) = 6.0

WATER COLUMN HEIGHT (feet) = 9.25 ACTUAL PURGE (gal) = 6.0

FIELD MEASUREMENTS

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 14.97 SAMPLE TURBIDITY: Low

SAMPLE TURBIDITY: Low

80% RECHARGE: YES NO ANALYSES: BTEX, TPPh, 5 Oxygenates Via EPA 8260B

ODOR: D SAMPLE VESSEL / PRESERVATIVE: HCL

PURGING EQUIPMENT

Bladder Pump	Bailer (Teflon)
Centrifugal Pump	Bailer (PVC)
X Submersible Pump	Bailer (Stainless Steel)
Peristaltic Pump	Dedicated

SAMPLING EQUIPMENT

<input type="checkbox"/> Bladder Pump	<input type="checkbox"/> Bailer (Teflon)
<input checked="" type="checkbox"/> Centrifugal Pump	<input type="checkbox"/> Bailer (_____ PVC or _____)
<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> Bailer (Stainless Steel)
<input type="checkbox"/> Peristaltic Pump	<input type="checkbox"/> Dedicated _____

Other: _____

Pump Depth:

WELL INTEGRITY: *good*

LOCK#: yes

REMARKS: *(Handwritten notes)*

REMARKS:

SIGNATURE: 

Chain of Custody Number:

SECOR Chain-of Custody Record

Field Office: 077 Sacramento
 Address: 3017 Kilgore Road, Suite 100
Rancho Cordova, CA

Additional documents are attached, and are part of this Record.

Job Name: 7-Eleven Store #20244Location: 3625 MacDonald AvenueRichmond, California

Project # 77EL.20244.04 Task # 0410

Project Manager Jaff AuchtterlonieLaboratory Kiff AnalyticalTurnaround Time Standard

Samplers Name Peng Vang
 Sampler's Signature Peng Vang

Sample ID	Date	Time	Matrix
MW-1	9-27-04	1610	Water
MW-2	105	9-21-04	Water
MW-3	105	9-21-04	Water
MW-4	105	9-27-04	Water
MW-5	105	9-27-04	Water

Analysis Request					
5 Oxygenates					
EPA 8260B					
Semi-Volatile Organics					
625/8270 (GC/MS)					
601/8010					
Halogenated Volatiles					
624/8240 (g-GC/MS)					
Volatile organics					
602/8020					
Aromatic Volatiles					
TPH 418.1/MTPH 418.1					
TPHD (Diesel Only)					
8015 (modified)					
TPHg/BTEX - EPA 8260					
HCl-preserved					

Comments/
Instructions

Special Instructions/Comments
5 Oxygenates: TAME, MtBE, EtBE, TBA, & DIPE
 Global ID #T0601300710 (SIRC)
 email EDD to dacatlin@secor.com
 email lab report to dherzog@secor.com and
tmillier@secor.com

Relinquished by: PENG VANG Received by: _____
 Sign PENG VANG Print _____
 Company SECOR Date 9-30-04

Relinquished by: _____ Received by: _____
 Sign _____ Print _____
 Company _____ Date _____

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**ATTACHMENT B
CERTIFIED LABORATORY ANALYTICAL REPORTS
AND CHAIN-OF-CUSTODY DOCUMENTATION**

Quarterly Groundwater Monitoring
Report – Third Quarter 2004
7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, California



Report Number : 40372
Date : 10/6/2004

Debbie Herzog
SECOR International, Inc.
3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670

Subject : 5 Water Samples
Project Name : 7-Eleven Store #20244
Project Number : 77EL.20244.04

Dear Ms. Herzog,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff



Report Number : 40372

Date : 10/6/2004

Subject : 5 Water Samples
Project Name : 7-Eleven Store #20244
Project Number : 77EL.20244.04

Case Narrative

Hydrocarbons reported as TPH as Gasoline do not exhibit a typical Gasoline chromatographic pattern for samples MW-1, MW-2 and MW-4.

Approved By:

Joe Kiff

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800



Report Number : 40372

Date : 10/6/2004

Project Name : 7-Eleven Store #20244

Project Number : 77EL.20244.04

Sample : MW-1

Matrix : Water

Lab Number : 40372-01

Sample Date : 9/27/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Methyl-t-butyl ether (MTBE)	22	0.50	ug/L	EPA 8260B	10/2/2004
Diisopropyl ether (DIPE)	19	0.50	ug/L	EPA 8260B	10/2/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	10/2/2004
TPH as Gasoline	460	50	ug/L	EPA 8260B	10/2/2004
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	10/2/2004
4-Bromofluorobenzene (Surr)	99.0		% Recovery	EPA 8260B	10/2/2004

Approved By: 
Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 40372

Date : 10/6/2004

Project Name : 7-Eleven Store #20244

Project Number : 77EL.20244.04

Sample : MW-2

Matrix : Water

Lab Number : 40372-02

Sample Date : 9/27/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Methyl-t-butyl ether (MTBE)	20	0.50	ug/L	EPA 8260B	10/2/2004
Diisopropyl ether (DIPE)	1.5	0.50	ug/L	EPA 8260B	10/2/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	10/2/2004
TPH as Gasoline	1200	50	ug/L	EPA 8260B	10/2/2004
Toluene - d8 (Surr)	97.5		% Recovery	EPA 8260B	10/2/2004
4-Bromofluorobenzene (Surr)	98.3		% Recovery	EPA 8260B	10/2/2004

Approved By:  Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 40372

Date : 10/6/2004

Project Name : 7-Eleven Store #20244

Project Number : 77EL.20244.04

Sample : MW-3

Matrix : Water

Lab Number : 40372-03

Sample Date : 9/27/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	340	50	ug/L	EPA 8260B	10/5/2004
Toluene	< 50	50	ug/L	EPA 8260B	10/5/2004
Ethylbenzene	360	50	ug/L	EPA 8260B	10/5/2004
Total Xylenes	< 50	50	ug/L	EPA 8260B	10/5/2004
Methyl-t-butyl ether (MTBE)	25000	50	ug/L	EPA 8260B	10/5/2004
Diisopropyl ether (DIPE)	< 50	50	ug/L	EPA 8260B	10/5/2004
Ethyl-t-butyl ether (ETBE)	< 50	50	ug/L	EPA 8260B	10/5/2004
Tert-amyl methyl ether (TAME)	< 50	50	ug/L	EPA 8260B	10/5/2004
Tert-Butanol	7600	500	ug/L	EPA 8260B	10/5/2004
TPH as Gasoline	< 5000	5000	ug/L	EPA 8260B	10/5/2004
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	10/5/2004
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	10/5/2004

Approved By: Joe Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 40372

Date : 10/6/2004

Project Name : 7-Eleven Store #20244

Project Number : 77EL.20244.04

Sample : MW-4

Matrix : Water

Lab Number : 40372-04

Sample Date : 9/27/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/5/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/5/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/5/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/5/2004
Methyl-t-butyl ether (MTBE)	2.5	0.50	ug/L	EPA 8260B	10/5/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	10/5/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	10/5/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	10/5/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	10/5/2004
TPH as Gasoline	72	50	ug/L	EPA 8260B	10/5/2004
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	10/5/2004
4-Bromofluorobenzene (Surr)	98.8		% Recovery	EPA 8260B	10/5/2004

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 40372

Date : 10/6/2004

Project Name : 7-Eleven Store #20244

Project Number : 77EL.20244.04

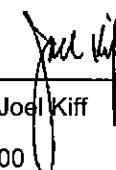
Sample : MW-5

Matrix : Water

Lab Number : 40372-05

Sample Date : 9/27/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Methyl-t-butyl ether (MTBE)	0.56	0.50	ug/L	EPA 8260B	10/2/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	10/2/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/2/2004
Toluene - d8 (Surr)	108		% Recovery	EPA 8260B	10/2/2004
4-Bromofluorobenzene (Surr)	82.9		% Recovery	EPA 8260B	10/2/2004

Approved By: 
Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

QC Report : Method Blank Data

Project Name : 7-Eleven Store #20244

Project Number : 77EL.20244.04

Report Number : 40372

Date : 10/6/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/5/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/5/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/5/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/5/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/5/2004
Diisopropyl ether (DIPÉ)	< 0.50	0.50	ug/L	EPA 8260B	10/5/2004
Ethy-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	10/5/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	10/5/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	10/5/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/5/2004
Toluene - d8 (Surr)	103	%		EPA 8260B	10/5/2004
4-Bromofluorobenzene (Surr)	102	%		EPA 8260B	10/5/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Diisopropyl ether (DIPÉ)	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Ethy-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	10/2/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/2/2004
Toluene - d8 (Surr)	97.6	%		EPA 8260B	10/2/2004
4-Bromofluorobenzene (Surr)	100	%		EPA 8260B	10/2/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/5/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/5/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/5/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/5/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/5/2004
Diisopropyl ether (DIPÉ)	< 0.50	0.50	ug/L	EPA 8260B	10/5/2004
Ethy-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	10/5/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	10/5/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	10/5/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/5/2004
Toluene - d8 (Surr)	97.6	%		EPA 8260B	10/5/2004
4-Bromofluorobenzene (Surr)	100	%		EPA 8260B	10/5/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Diisopropyl ether (DIPÉ)	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Ethy-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	10/2/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/2/2004
Toluene - d8 (Surr)	106	%		EPA 8260B	10/2/2004
4-Bromofluorobenzene (Surr)	84.6	%		EPA 8260B	10/2/2004

Approved By:

KIFF ANALYTICAL, LLC

Joel Kiff

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

QC Report : Matrix Spike/ Matrix Spike Duplicate

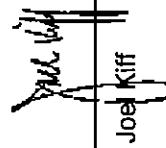
Project Name : 7-Eleven Store #20244

Project Number : 77EL.20244.04

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Spiked Sample Percent Recov. Diff.	Relative Percent Diff.
Benzene	40376-08	<0.50	39.8	39.7	31.6	30.8	ug/L	EPA 8260B	10/5/04	79.2	77.7	1.85
Toluene	40376-08	<0.50	39.8	39.7	34.4	33.6	ug/L	EPA 8260B	10/5/04	86.4	84.6	2.09
Tert-Butanol	40376-08	<5.0	199	198	176	178	ug/L	EPA 8260B	10/5/04	88.6	89.7	1.28
Methyl-t-Butyl Ether	40376-08	<0.50	39.8	39.7	31.5	31.4	ug/L	EPA 8260B	10/5/04	79.2	79.2	0.0112
Benzene	40385-05	<0.50	40.0	40.0	41.2	40.1	ug/L	EPA 8260B	10/2/04	103	100	2.56
Toluene	40385-05	<0.50	40.0	40.0	38.7	39.1	ug/L	EPA 8260B	10/2/04	96.8	97.7	0.911
Tert-Butanol	40385-05	<5.0	200	200	202	206	ug/L	EPA 8260B	10/2/04	101	103	1.80
Methyl-t-Butyl Ether	40385-05	<0.50	40.0	40.0	42.5	42.1	ug/L	EPA 8260B	10/2/04	106	105	0.849
Benzene	40370-03	0.86	40.0	40.0	38.4	38.1	ug/L	EPA 8260B	10/4/04	93.7	93.0	0.740
Toluene	40370-03	<0.50	40.0	40.0	37.0	36.2	ug/L	EPA 8260B	10/4/04	92.4	90.4	2.15
Tert-Butanol	40370-03	<5.0	200	200	193	193	ug/L	EPA 8260B	10/4/04	96.4	96.4	0.0205
Methyl-t-Butyl Ether	40370-03	95	40.0	40.0	133	134	ug/L	EPA 8260B	10/4/04	93.8	96.5	2.85
Benzene	40372-05	<0.50	40.0	40.0	41.2	40.8	ug/L	EPA 8260B	10/2/04	103	102	0.772
Toluene	40372-05	<0.50	40.0	40.0	43.3	42.9	ug/L	EPA 8260B	10/2/04	108	107	0.857
Tert-Butanol	40372-05	<5.0	200	200	210	210	ug/L	EPA 8260B	10/2/04	105	105	0.389
Methyl-t-Butyl Ether	40372-05	0.56	40.0	40.0	33.6	34.2	ug/L	EPA 8260B	10/2/04	82.7	84.0	1.58

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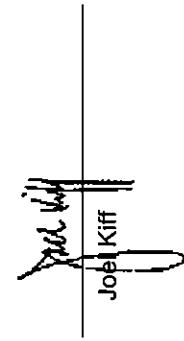
QC Report : Laboratory Control Sample (LCS)

Project Name : 7-Eleven Store #20244

Project Number : 77EL.20244.04

QC Report : Laboratory Control Sample (LCS)

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	10/5/04	78.1	70-130
Toluene	40.0	ug/L	EPA 8260B	10/5/04	84.2	70-130
Tert-Butanol	200	ug/L	EPA 8260B	10/5/04	89.1	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	10/5/04	82.5	70-130
Benzene	40.0	ug/L	EPA 8260B	10/2/04	94.9	70-130
Toluene	40.0	ug/L	EPA 8260B	10/2/04	99.2	70-130
Tert-Butanol	200	ug/L	EPA 8260B	10/2/04	96.3	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	10/2/04	97.4	70-130
Benzene	40.0	ug/L	EPA 8260B	10/4/04	98.8	70-130
Toluene	40.0	ug/L	EPA 8260B	10/4/04	95.9	70-130
Tert-Butanol	200	ug/L	EPA 8260B	10/4/04	97.2	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	10/4/04	102	70-130
Benzene	40.0	ug/L	EPA 8260B	10/2/04	103	70-130
Toluene	40.0	ug/L	EPA 8260B	10/2/04	108	70-130
Tert-Butanol	200	ug/L	EPA 8260B	10/2/04	102	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	10/2/04	81.1	70-130



Approved By:

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Chain of Custody Number: 46372

SECOR Chain-of Custody Record

Field Office: 077 Sacramento
Address: 3017 Kilgore Road, Suite 100
Rancho Cordova, CA

Additional documents are attached, and are part of this Record.
Job Name: 7-Eleven Store #20244
Location: 3625 MacDonald Avenue
Richmond, California

Analysis Request										Number of Containers	
Project #	77EL.20244.04		Task #		0410						
Project Manager	Jaff Auchterlonie										
Laboratory	Kiff Analytical										
Turnaround Time	Standard										
Sampler's Name	<u>Peng Vang</u>										
Sampler's Signature	<u>Jaff Auchterlonie</u>										
Sample ID	1	Date	Time	Matrix							
MW-1		9-27-04	1110	Water	X						
MW-2	1105	9-27-04	1205	Water	X						
MW-3		9-27-04	1235	Water	X						
MW-4		9-27-04	1505	Water	X						
MW-5		9-27-04	1540	Water	X						
HCl-preserved											
TPHg-BTEX - EPA 8260											
TPHD (Diesel Only)											
8015 (modified)											
TPH4 418.1/MTPH 418.1											
Aromatic Volatiles											
602/8020											
Volatile organics											
624/8240 (g=G/C/MS)											
Halogenated Volatiles											
601/8010											
Semi-Volatile Organics											
625/8270 (GC/MS)											
5 Oxygenates											
EPA 8260B											
Comments/Instructions											
01											
02											
03											
04											
05											
Sample Receipt											
Total no. of containers:											
Chain of custody seals:											
Rec'd in good condition/cold:											
Conforms to record:											
Received by: <u>Peng Vang</u>											
Sign <u>Peng Vang</u>											
Print <u>Peng Vang</u>											
Company <u>SECOR</u>											
Time <u>Date 9-30-04</u>											
Received by: <u>Tom Miller</u>											
Sign <u>Tom Miller</u>											
Print <u>Tom Miller</u>											
Company <u>SECOR</u>											
Time <u>Date 10/3/04</u>											
Special Instructions/Comments											
5 Oxygenates: TAME, MIBE, EIBE, TBA, & DIPE											
Global ID #0601300710 (SIRC)											
email EDD to dacatlin@secor.com											
email lab report to dherzog@secor.com and											
tmiller@secor.com											
Client: <u>SECOR</u>											
Client Contact: <u>Tom Miller</u>											
Client Phone: <u>(916) 861-0400</u>											
ext. 279											

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